FARFISA

VIP 255

schematic diagrams

IV Ediz

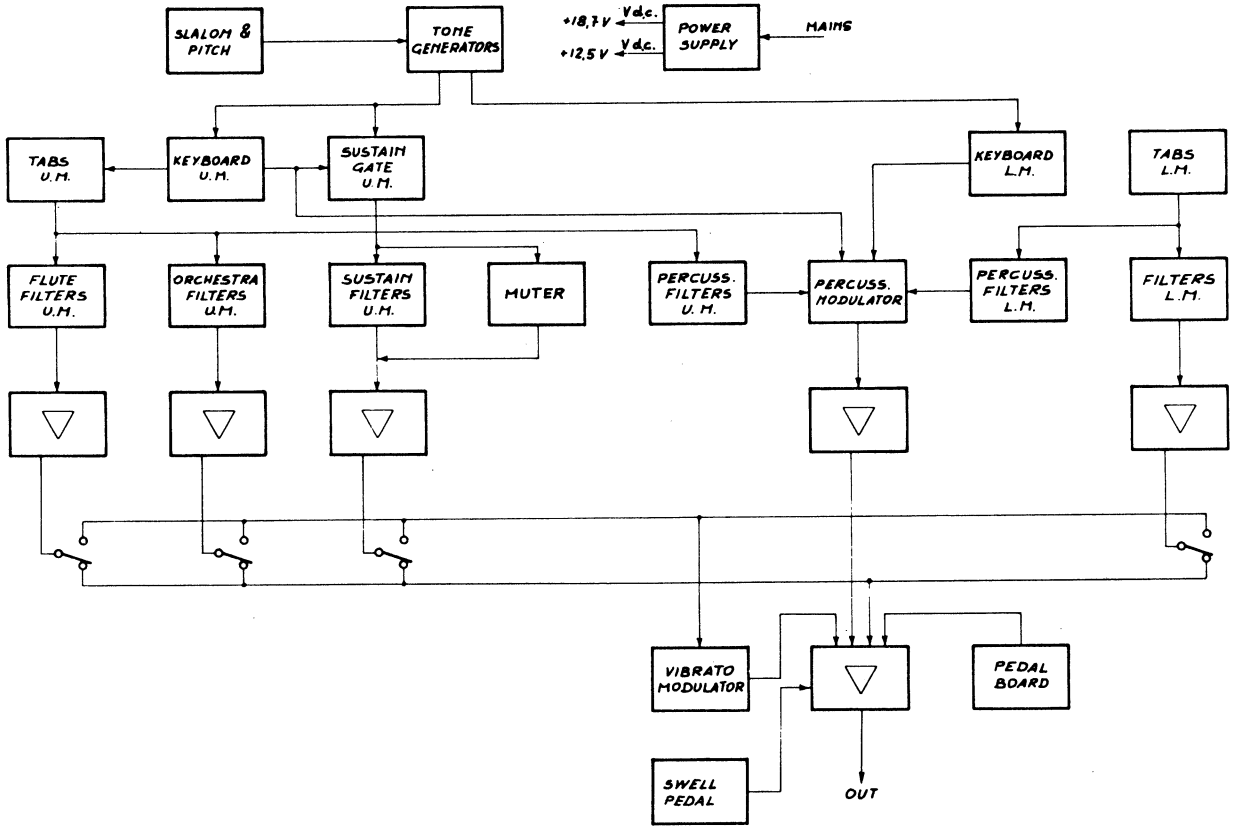
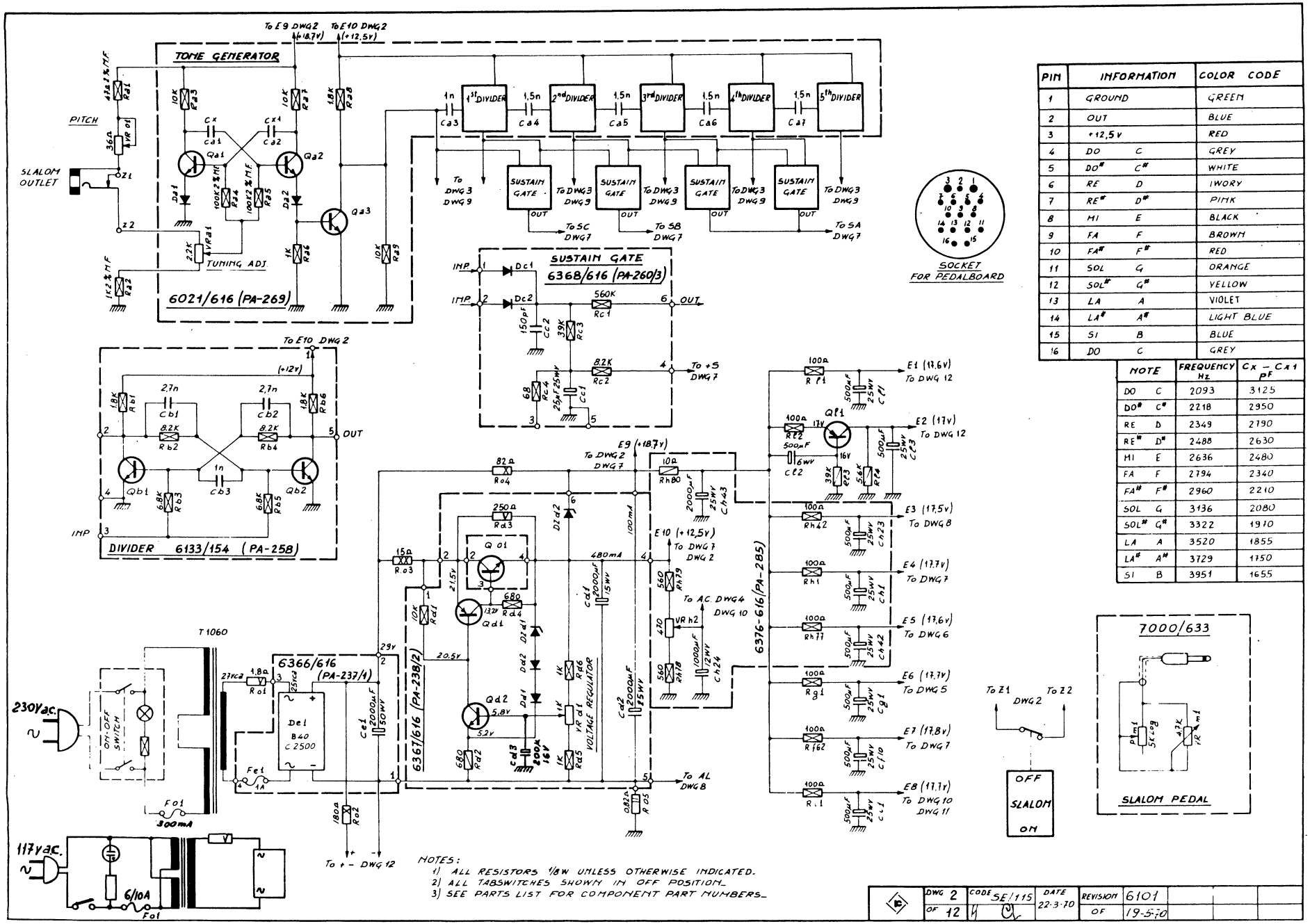


DIAGRAM BLOCK

DWG 1.

	DWG 1 OF 12	CODE SE/115	DATE 26-3-70	REVISION OF



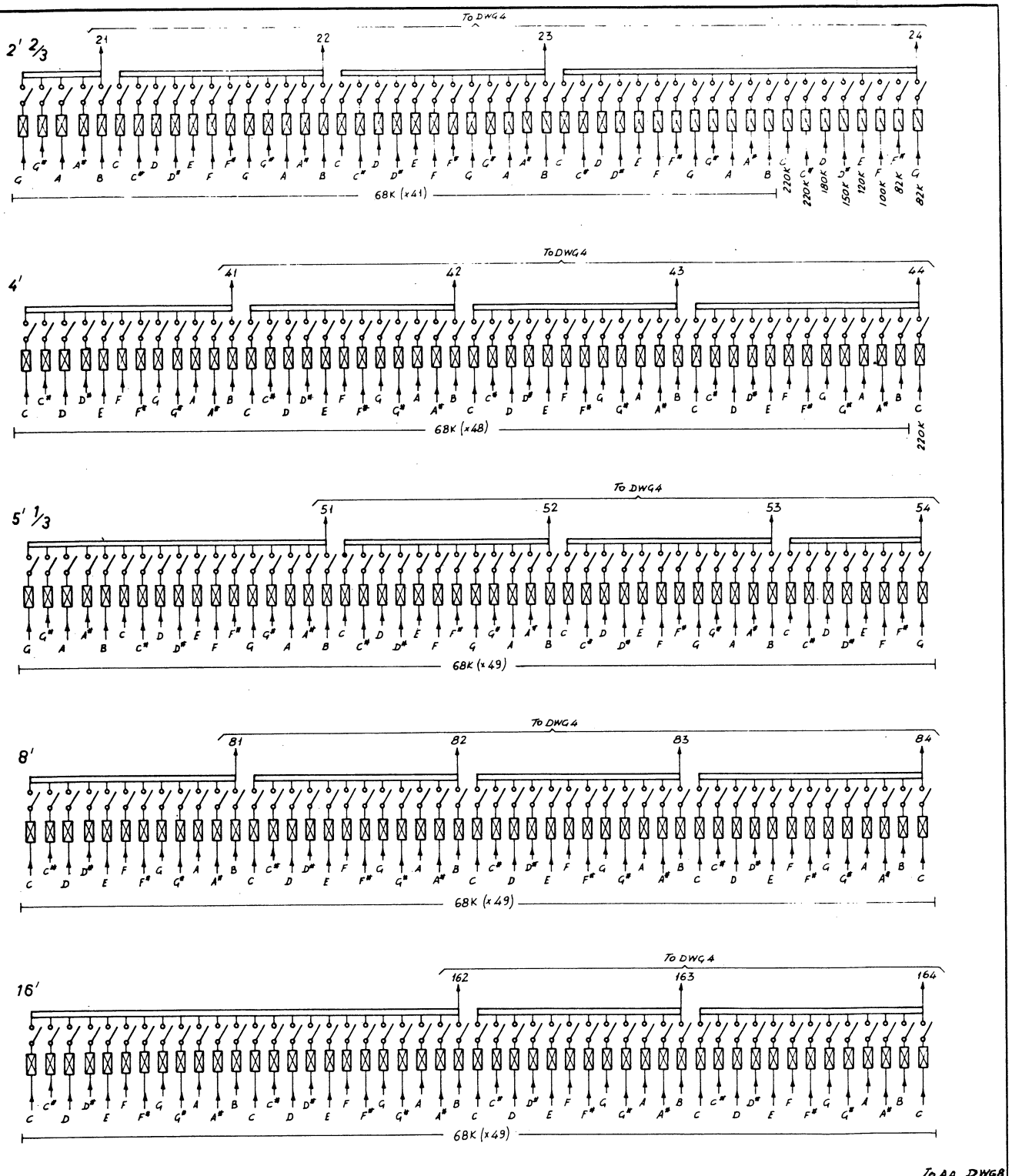
PIN	INFORMATION	COLOR CODE
1	GROUND	GREEN
2	OUT	BLUE
3	+12,5 v	RED
4	DO C	GREY
5	DO# C#	WHITE
6	RE D	IWORY
7	RE# D#	PINK
8	MI E	BLACK
9	FA F	BROWN
10	FA# F#	RED
11	SOL G	ORANGE
12	SOL# G#	YELLOW
13	LA A	VIOLET
14	LA# A#	LIGHT BLUE
15	SI B	BLUE
16	DO C	GREY

NOTE	FREQUENCY Hz	Cx – Cx1 pF
DO C	2093	3125
DO# C#	2218	2950
RE D	2349	2790
RE# D#	2488	2630
MI E	2636	2480
FA F	2794	2340
FA# F#	2960	2210
SOL G	3136	2080
SOL# G#	3322	1910
LA A	3520	1855
LA# A#	3729	1750
SI B	3951	1655

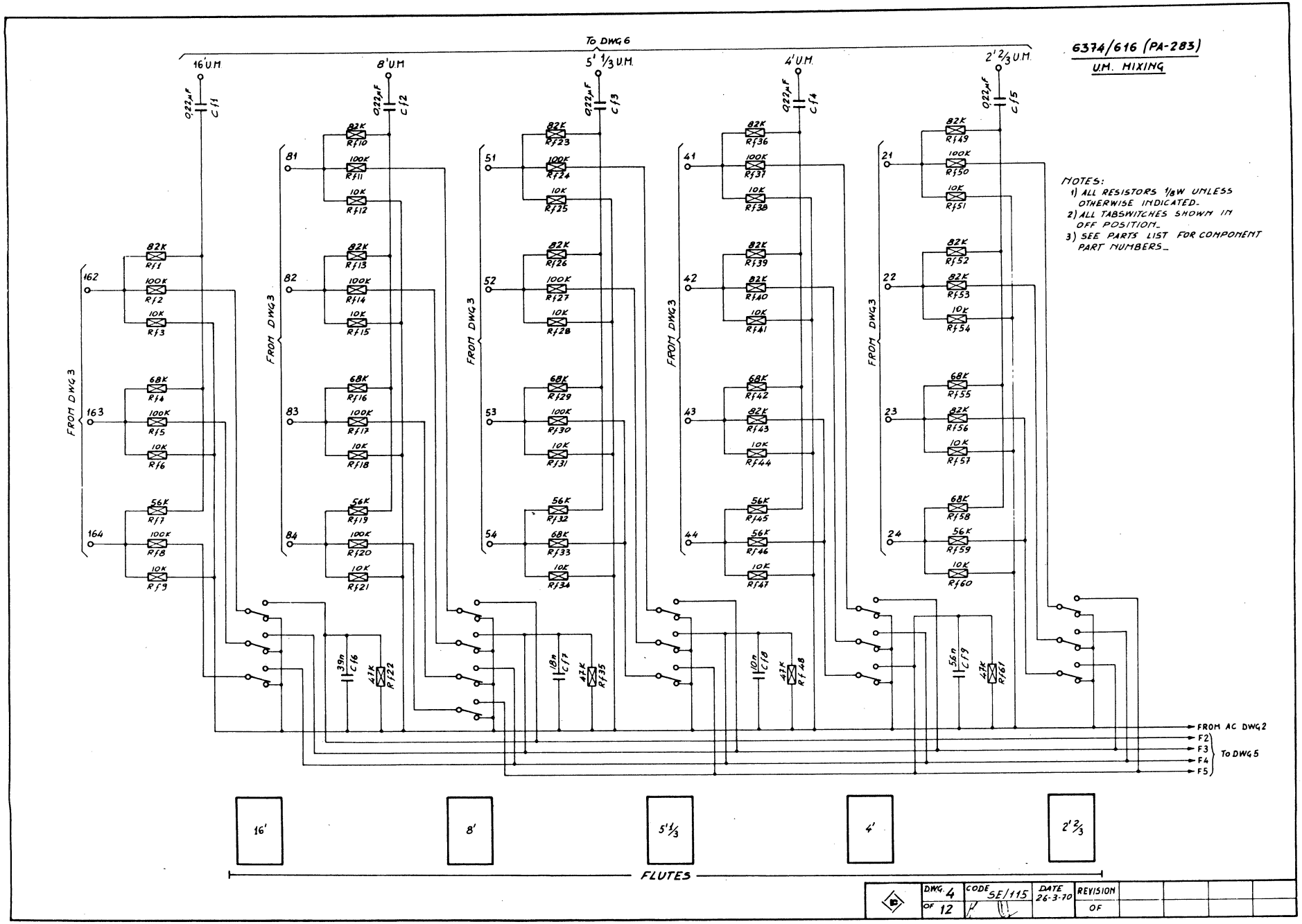
NOTES:
1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

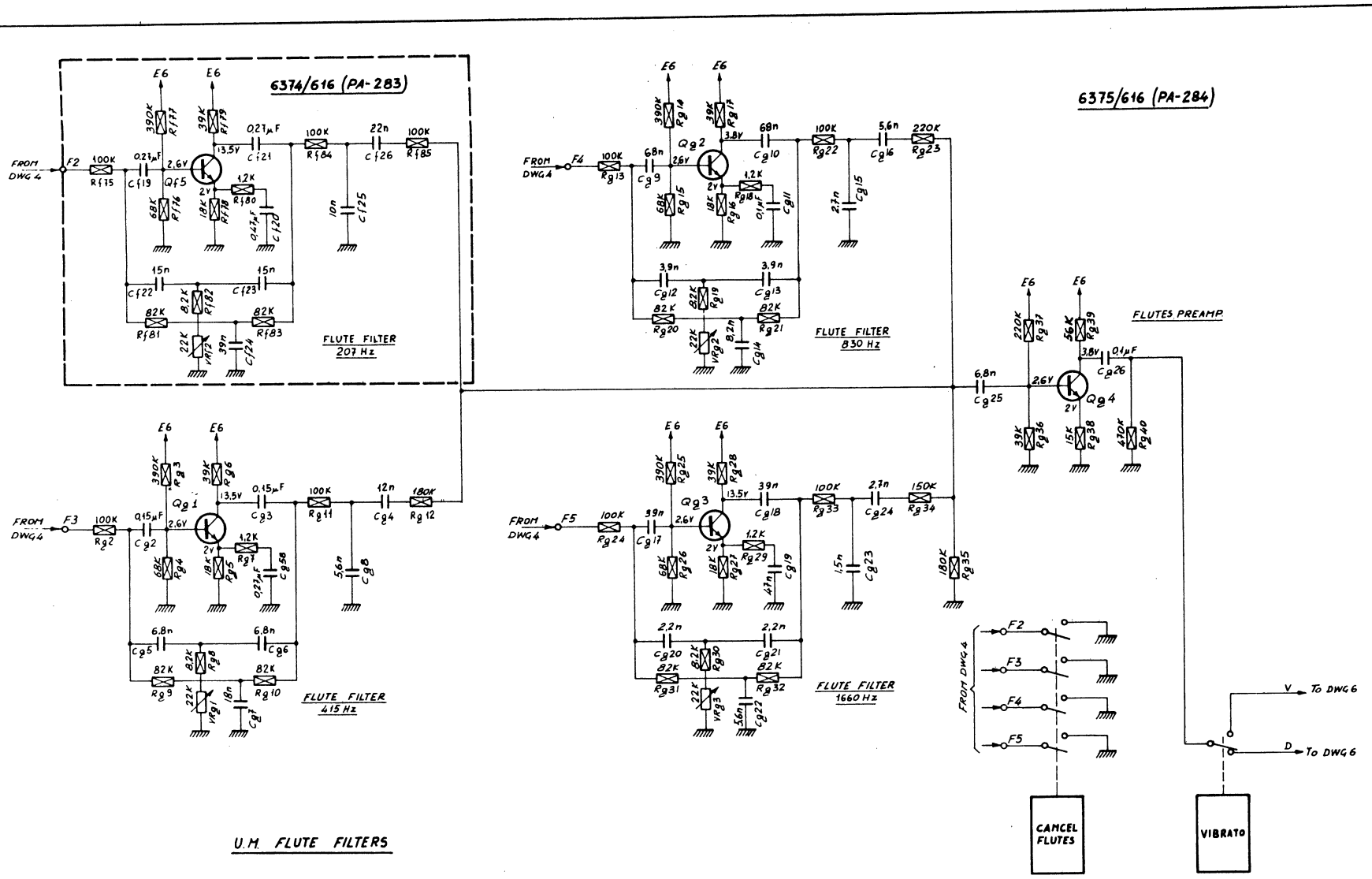
DWG	CODE	DATE	REVISION	
DWG 2 OF 12	SE/115	22-3-70	6101 OF 19-5-70	

DWG 2



	DWG 3	CODE SE 115	DATE 26-3-70	REVISION	6101
	SH 12				27-5-70


6374/616 (PA-283)
U.M. MIXING
To DWG 6
16' U.M.
8' U.M.
5' 1/3 U.M.
4' U.M.
2' 2/3 U.M.
.022µF C11
.022µF C12
.022µF C13
.022µF C14
.022µF C15
FROM DWG 3
162
163
164
81
82
83
84
51
52
53
54
41
42
43
44
21
22
23
24
82K Rf1
100K Rf2
10K Rf3
68K Rf4
100K Rf5
10K Rf6
56K Rf7
100K Rf8
10K Rf9
82K Rf10
100K Rf11
10K Rf12
82K Rf13
100K Rf14
10K Rf15
68K Rf16
100K Rf17
10K Rf18
56K Rf19
100K Rf20
10K Rf21
82K Rf23
100K Rf24
10K Rf25
82K Rf26
100K Rf27
10K Rf28
68K Rf29
100K Rf30
10K Rf31
56K Rf32
68K Rf33
10K Rf34
82K Rf36
100K Rf37
10K Rf38
82K Rf39
82K Rf40
10K Rf41
68K Rf42
82K Rf43
10K Rf44
56K Rf45
56K Rf46
10K Rf47
82K Rf49
100K Rf50
10K Rf51
82K Rf52
82K Rf53
10K Rf54
68K Rf55
82K Rf56
10K Rf57
68K Rf58
56K Rf59
10K Rf60
39n C16
47K Rf22
18n C17
47K Rf35
10n C18
47K Rf48
56n C19
47K Rf61
NOTES:
1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.
FROM AC DWG 2
F2
F3
F4
F5
To DWG 5
16'
8'
5'1/3
4'
2'2/3
FLUTES
DWG. 4
OF 12
CODE SE/115
DATE 26-3-70
REVISION
OF
DWG 4



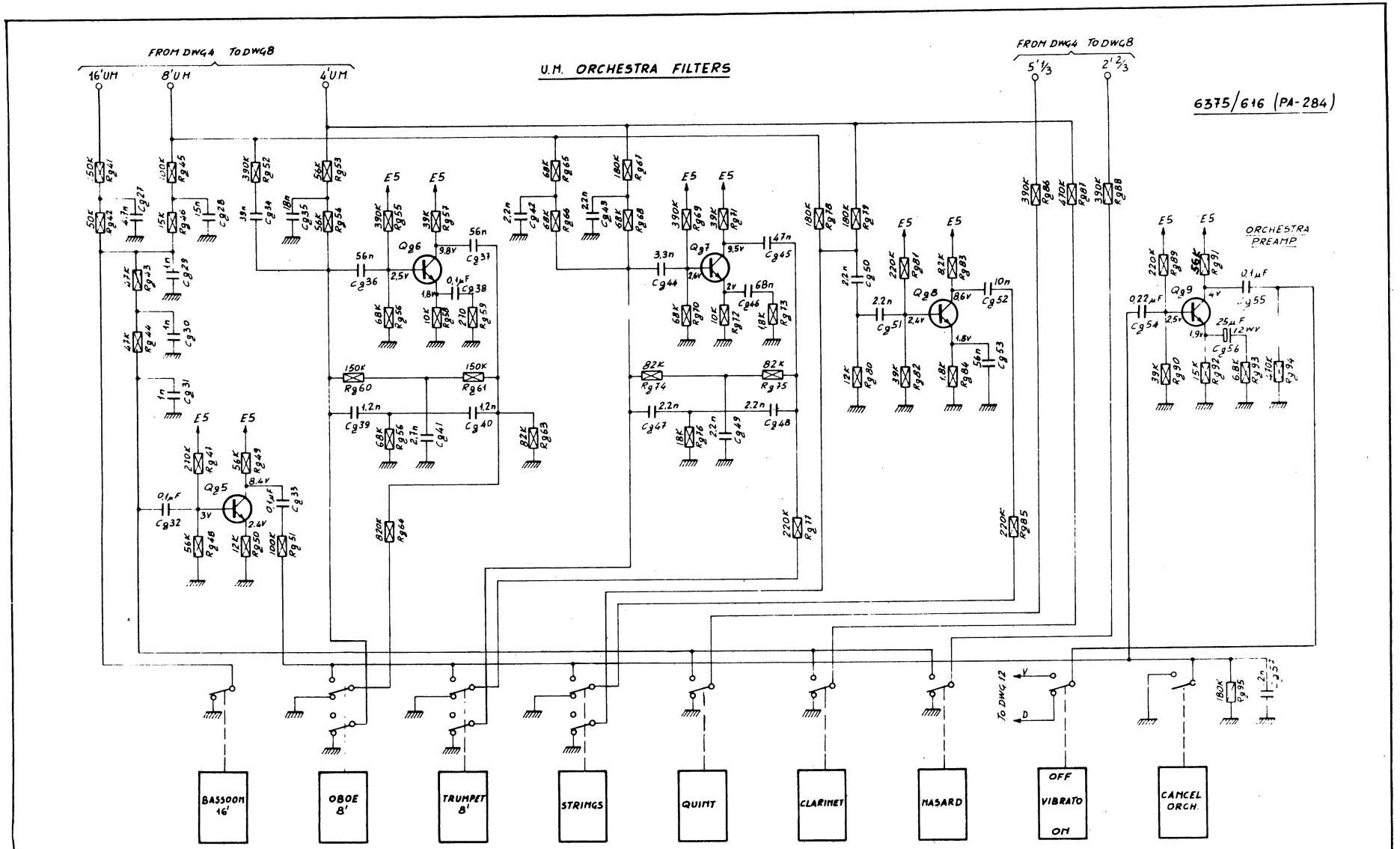
U.M. FLUTE FILTERS

NOTES:

1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG. 5 OF 12	CODE SE/115	DATE 26-3-70	REVISION OF 4-12-70

DWG 5



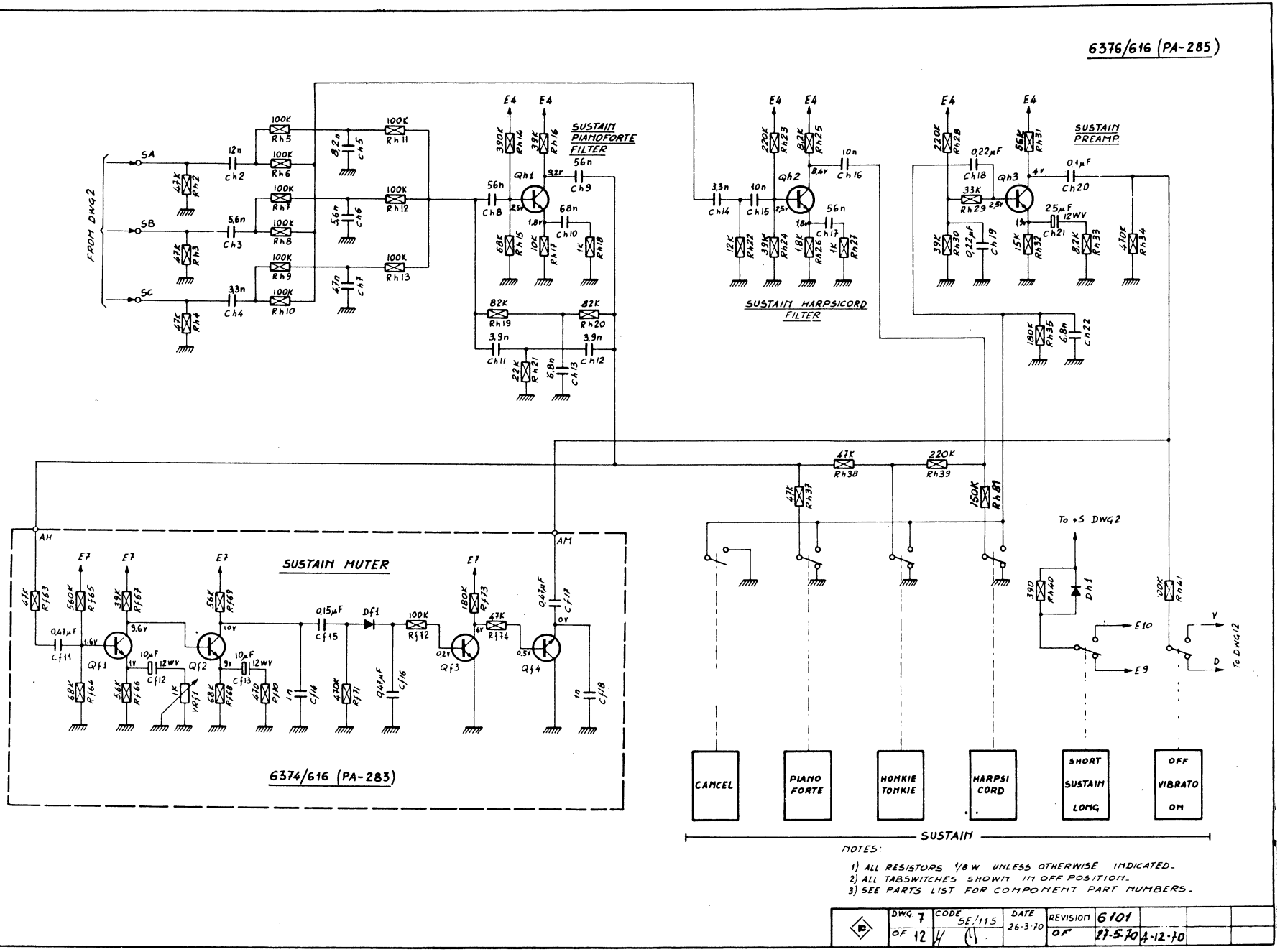
NOTES

1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCH SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS

	DWG 6	CODE SE/115	DATE 26-3-70	REVISION 6101			
	OF 12			OF	19-5-70	4-12-70	

DWG 6

6376/616 (PA-285)

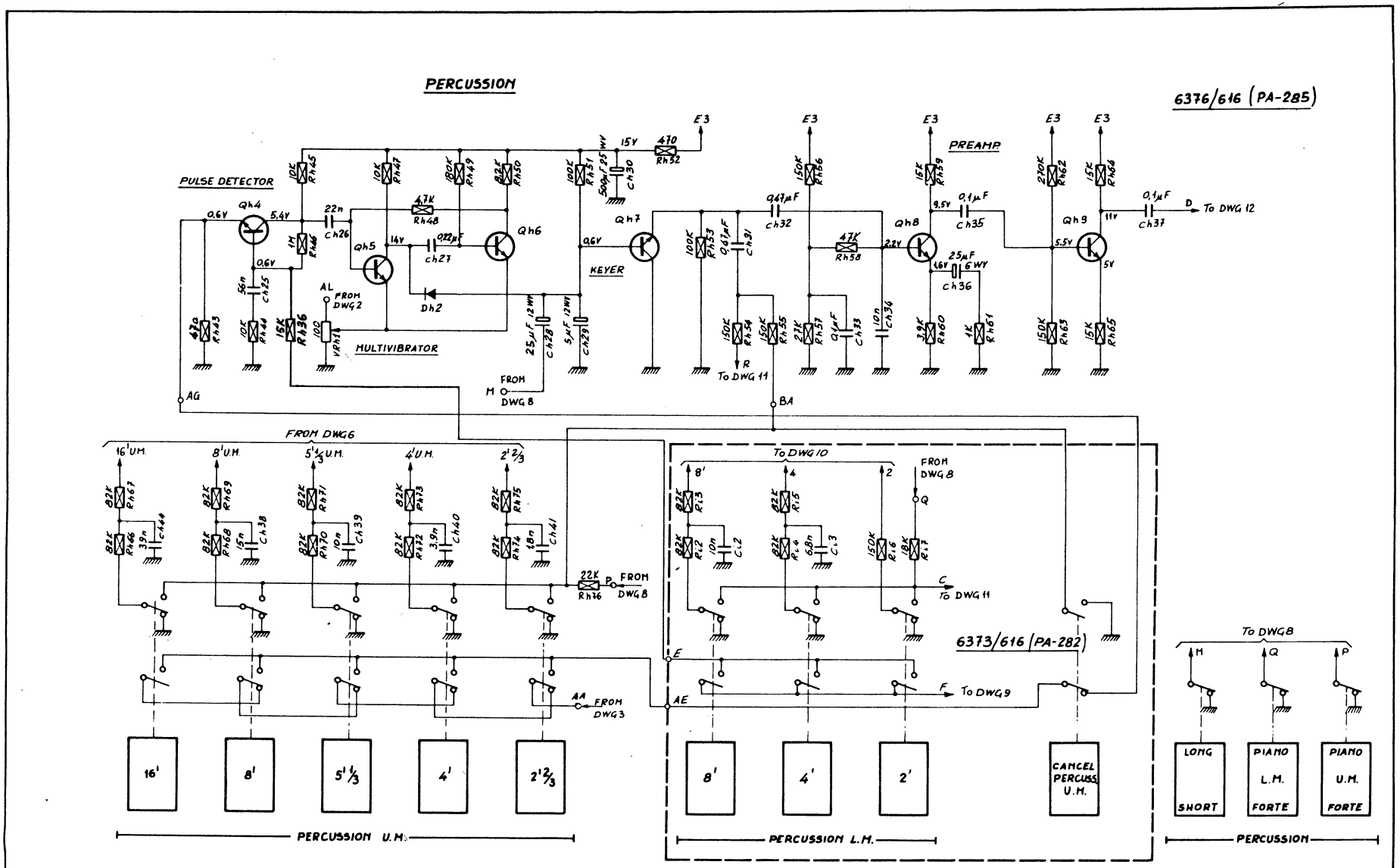


NOTES:

1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG 7 OF 12	CODE SE/115	DATE 26-3-70	REVISION 6101 OF 27-5-70 4-12-70

DWG 7

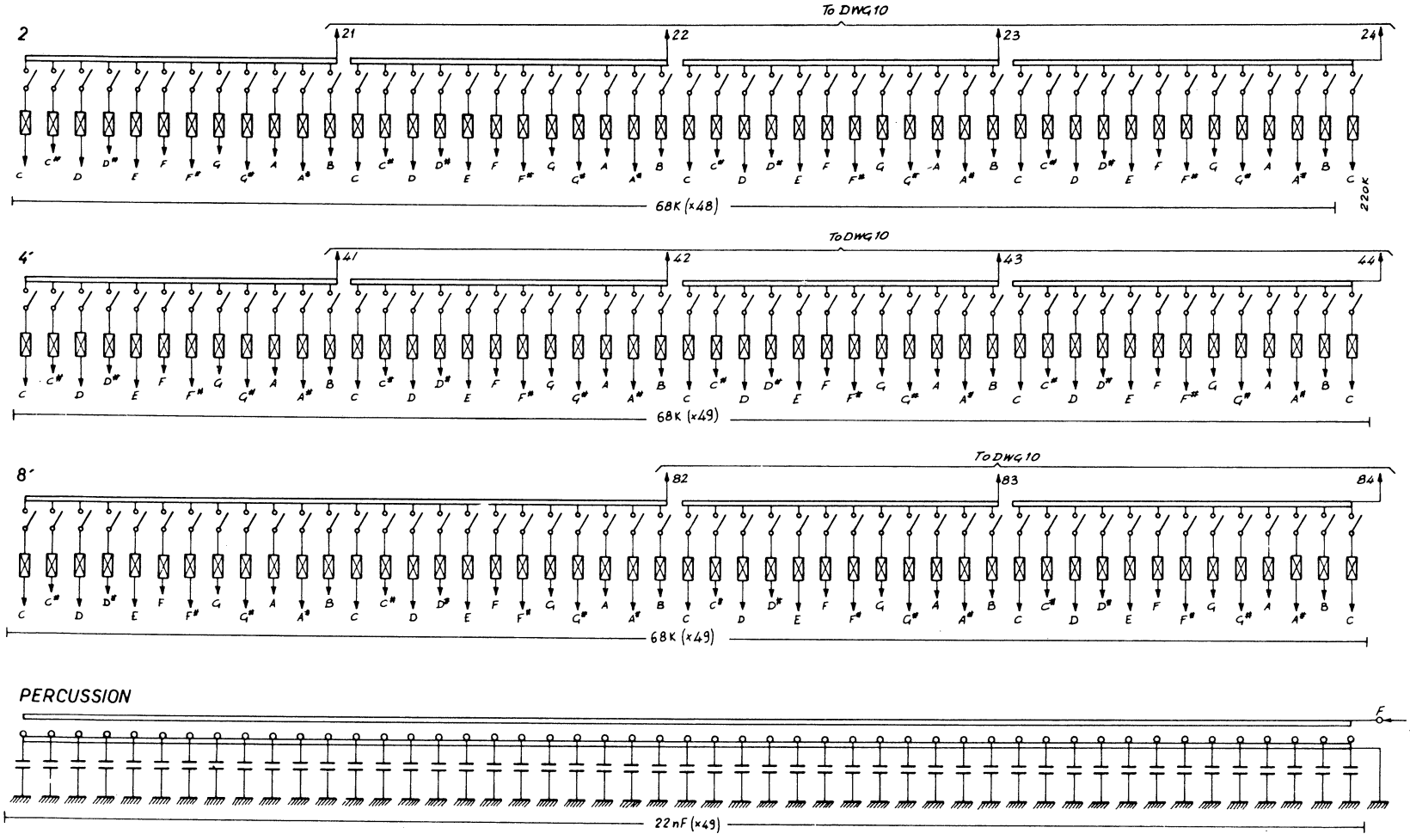


NOTES:

1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

DWG. 8	CODE	DATE	REVISION	6101
OF 12	SE/115	26-3-70	OF	19-5-70

DWG 8



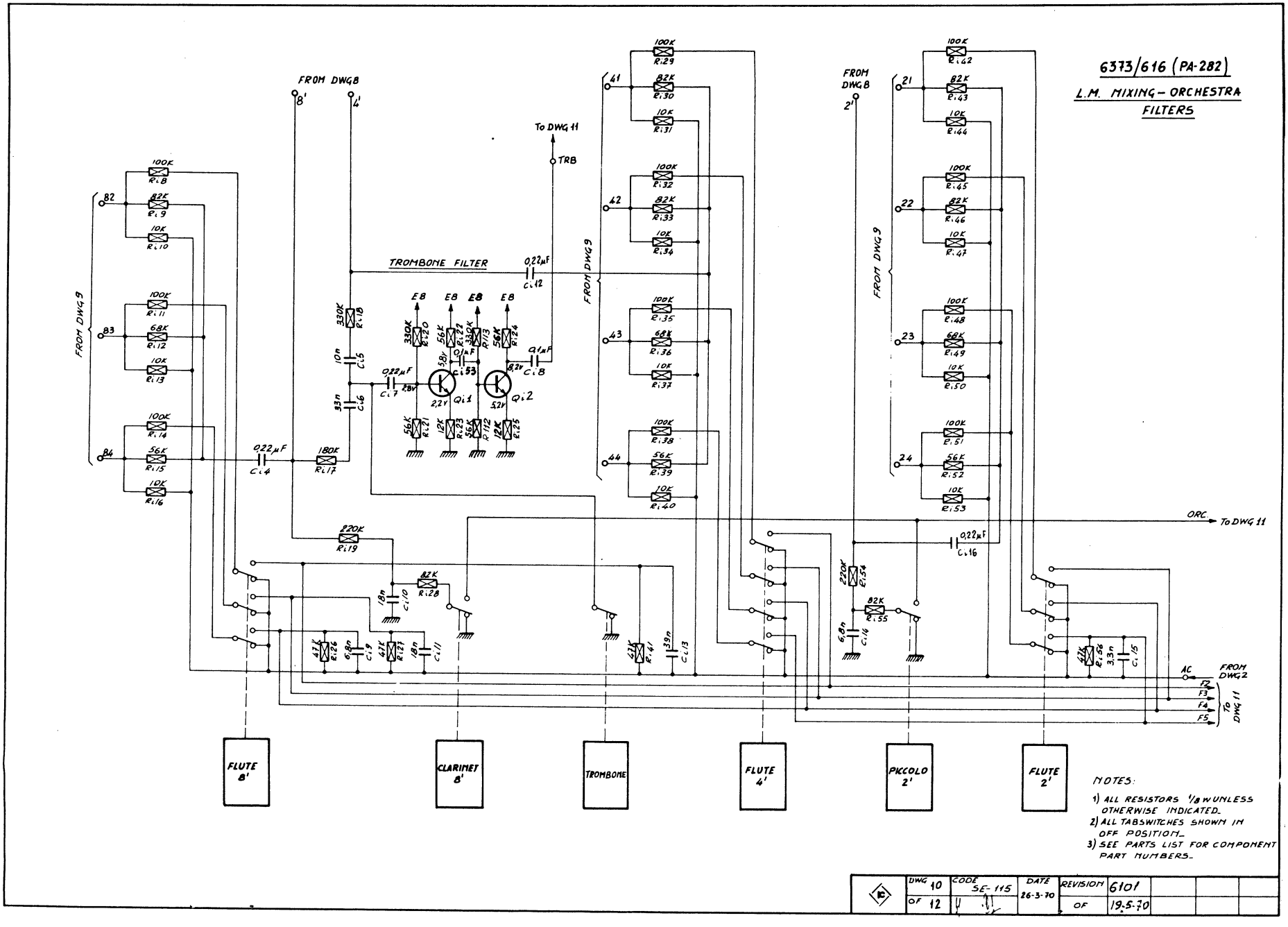
KEYBOARD L.M. 6371/616 (PA-278)

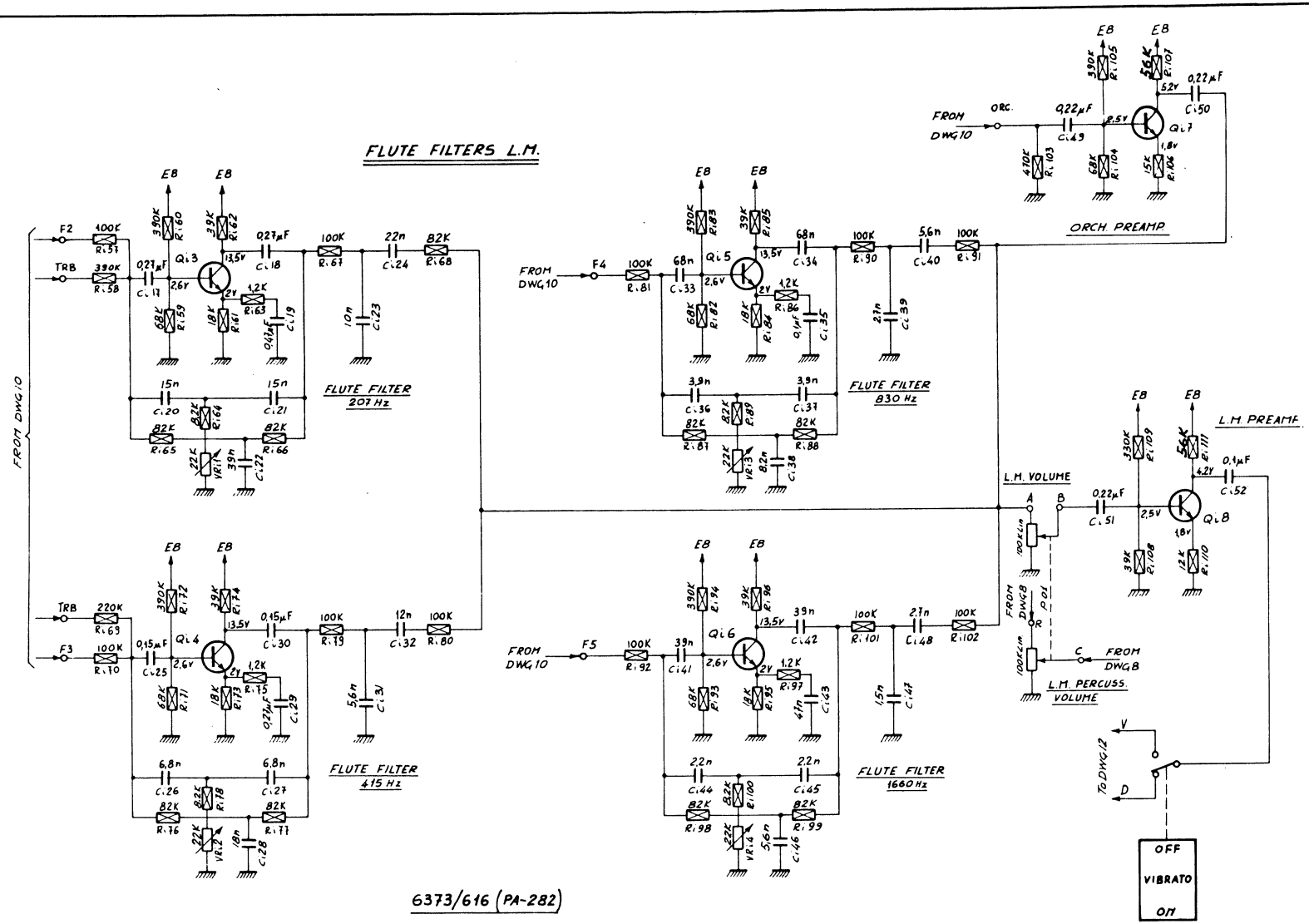
NOTES

1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
2) ALL KEYSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

	DWG 9 OF 12	CODE SE/115	DATE 26-3-70	REVISION OF				

DWG 9


6373/616 (PA-282)
L.M. MIXING – ORCHESTRA FILTERS
FROM DWG 8
8'
4'
To DWG 11
TRB
TROMBONE FILTER
0,22µF C.12
FROM DWG 9
FROM DWG 8
2'
FROM DWG 9
100K R.8
82K R.9
10K R.10
100K R.11
68K R.12
10K R.13
100K R.14
56K R.15
10K R.16
82
83
84
0,22µF C.4
180K R.17
330K R.18
10n C.5
33n C.6
0,22µF C.7
28V
EB
330K R.20
56K R.21
12K R.23
56K R.22
330K R.13
56K R.24
12K R.25
0,1µF C.13
5,8V
0,1µF C.8
8,2V
Q1.1
2,2V
Q1.2
5,2V
56K R.112
100K R.29
82K R.30
10K R.31
100K R.32
82K R.33
10K R.34
100K R.35
68K R.36
10K R.37
100K R.38
56K R.39
10K R.40
41
42
43
44
100K R.42
82K R.43
10K R.44
100K R.45
82K R.46
10K R.47
100K R.48
68K R.49
10K R.50
100K R.51
56K R.52
10K R.53
21
22
23
24
ORC
To DWG 11
220K R.19
82K R.28
18n C.10
41K R.26
6,8n C.9
41K R.27
18n C.11
47K R.41
39n C.13
220K R.54
82K R.55
6,8n C.14
0,22µF C.16
47K R.56
3,3n C.15
AC
FROM DWG 2
F2
F3
F4
F5
TO DWG 11
FLUTE 8'
CLARINET 8'
TROMBONE
FLUTE 4'
PICCOLO 2'
FLUTE 2'
NOTES:
1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.
DWG 10
OF 12
CODE SE-115
DATE 26-3-70
REVISION 6101
OF 19-5-70
DWG 10



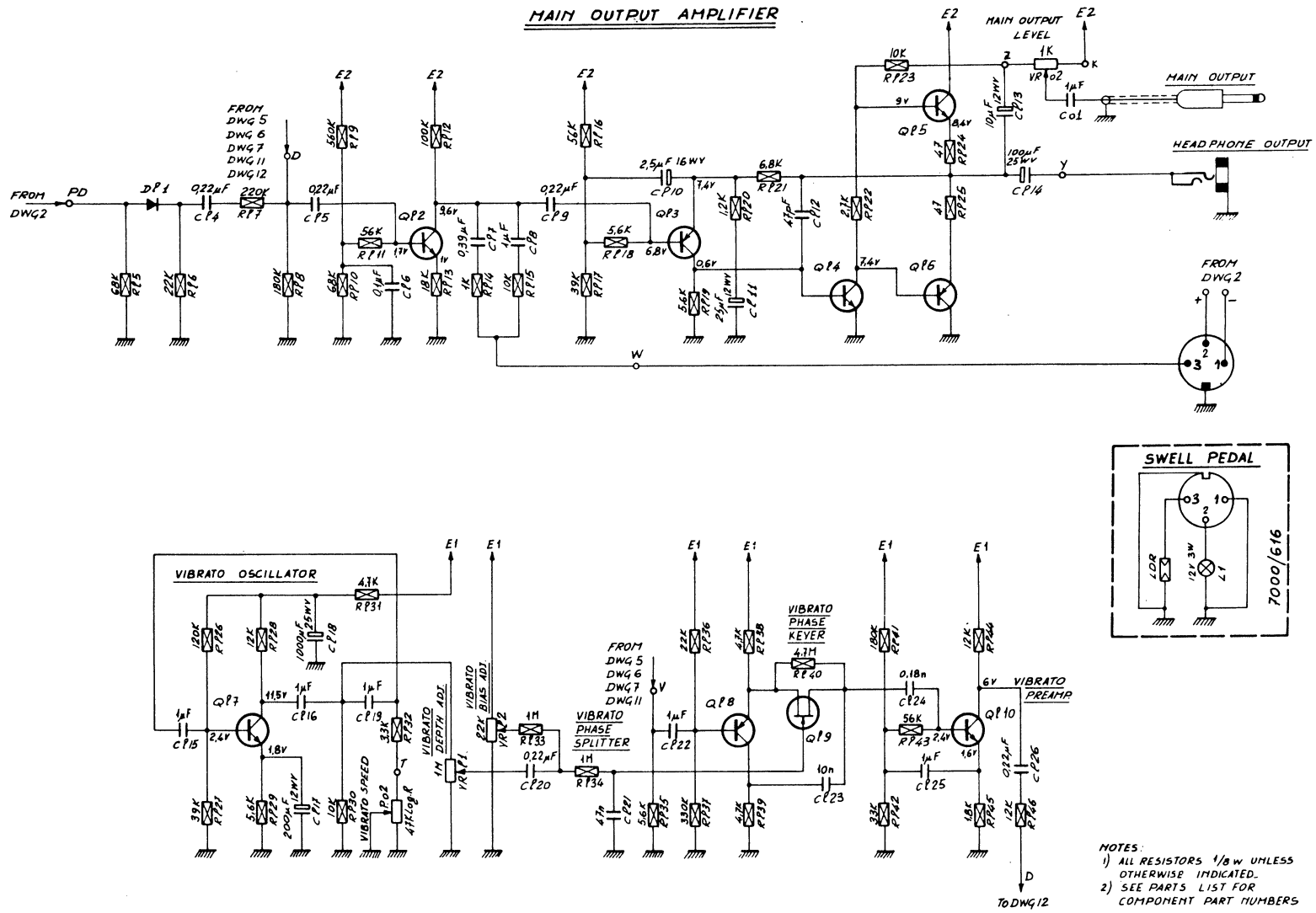
6373/616 (PA-282)

NOTES:

1) ALL RESISTORS 1/8W UNLESS OTHERWISE INDICATED.
2) ALL TABSWITCHES SHOWN IN OFF POSITION.
3) SEE PARTS LIST FOR COMPONENT PART NUMBERS.

	DWG 11	CODE SE-115	DATE 26-3-70	REVISION				
	OF 12			OF	4-12-70			

DWG 11



6372/616 (PA-281)

NOTES:
1) ALL RESISTORS 1/8 W UNLESS OTHERWISE INDICATED.
2) SEE PARTS LIST FOR COMPONENT PART NUMBERS

	DWG 12	CODE SE-115	DATE 26-5-10	REVISION 6101			
	OF 12			OF 19-5-70			

DWG 12

Transistors

POSITION	TYPE	FARFISA CODE
Q a1 + Q a3	2N 5172	W/126
	BC 109 B & C	W/98 - 101
	MISTRAL BC 209 B & C	W/110-111
Q b1, Q b2	2N 5172	W/126
Q d1	S.G.S. BC 143	W/65
Q d2	MISTRAL BC 207 A & B	W/108-109
Q f1, Q f2 Q f3, Q f4	BC 109 C - BC 209 C	
Q f5	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q g1 + Q g3 & Q g5	BC 109 B & C	W/144-149 **
	BC 209 B & C	W/146-151 **
Q g4 & Q g6 + Q g9	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q h1 - Q h2	BC 109 B & C	W/144-149 **
	BC 209 B & C	W/146-151 **
Q h3 & Q h7 + Q h9	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q h5 + Q h6	2N 5172	W/126
Q h4	BC 109 B & C	W/98 -101
	BC 209 B & C	W/110-111
Q i1 + Q i8	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q l1, Q l3, Q l6, Q l8	S.G.S. IW 9640	W/89
Q l4, Q l7	2N 5172	W/126
Q l2, Q l5, Q l10	BC 109 B & C	W/143-148 *
	BC 209 B & C	W/145-150 *
Q l9	S.G.S. IW 11706	W/71
	AMELCO 2N 4304/selezionato	W/147
Q o1	RCA 2N 3055	W/50
	WESTINGHOUSE 2N 3055	W/118
	WESTINGHOUSE 156-043	W/114

* = red dot
** = blue dot

Diodes

POSITION	TYPE	FARFISA CODE
D a1, D a2	S.G.S. IX 9809	B/34
D c1, D c2	S.G.S. IX 9809	B/34
D d1, D d2	S.G.S. IX 9809	B/34
Dz d1	MULLARD BZY 88/C5V6	
	IRCI 1N 708	B/68
	ITT STANDARD ZF 5,6	B/69
Dz d2	IRCI 1Z 6,2	B/87
	IRCI 1ZC 6,2	B/88
	ITT STANDARD ZD 6,2	B/89
	MULLARD BZY 96/C6V2	B/90
D e1	B 40 C 2500	Y/14-Y/15
D f1	S.G.S. IX 9809	B/34
D h1	S.G.S. IX 9809	B/34
D h2	PHILIPS OA 70	B/8
	PHILIPS OA 90	B/99
D l1	S.G.S. IX 9809	B/34

Components identification list

GROUPS	COMPONENTS	
6021/616 - TONE GENERATORS (PA/269)	R a1 ÷ R a9 C a1 ÷ C a7 D a1 ÷ D a2	Q a1 ÷ Q a3 VR a1
6133/154 - DIVIDER (PA/258)	R b1 ÷ R b6 C b1 ÷ C b3 Q b1 ÷ Q b2	
6368/616 - SUSTAIN GATE (PA/260-3)	R c1 ÷ R c4 C c1 ÷ C c2 D c1 ÷ D c2	
6367/616 - POWER SUPPLY (PA/238-2)	R d1 ÷ R d6 C d1 ÷ C d2 D d1 ÷ D d2	Dz d1 ÷ Dz d2 Q d1 ÷ Q d2 VR d1
6366/616 - POWER SUPPLY (PA/237-1)	D e1 C e1 F e1	
6374/616 - U.M. MIXING AND SUSTAIN MUTER (PA/283)	R f1 ÷ R f85 C f1 ÷ C f26 D f1	Q f1 ÷ Q f5 VR f1 ÷ VR f2
6375/616 - U.M. FLUTES AND ORCHESTRA FILTERS (PA/284)	R g1 ÷ R g95 C g1 ÷ C g58	Q g1 ÷ Q g9 VR g1 ÷ VR g3
6376/616 - SUSTAIN FILTERS AND U.M. PERCUSSION (PA/285)	R h1 ÷ R h80 C h1 ÷ C h44 D h1 ÷ D h2	Q h1 ÷ Q h9 VR h1 ÷ VR h2
6373/616 - L.M. MIXING AND FILTERS (PA/282)	R i1 ÷ R i113 C i1 ÷ C i53 Q i1 ÷ Q i8	

6372/616 - MAIN OUTPUT AMPLIFIER AND VIBRATO

(PA/281)

R 11 + R 146 Q 11 + Q 110
C 11 + C 126 VR 11 + VR 12
D 11

CHASSIS

R o1 + R o4 F o1
C o1 P o1 + P o2
VR o1 + VR o2 Q o1